

# DISPLAYS:

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Technically Excellent Canadians!

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a) sera sauce	By Doneles Grey

THE INDUSTRY

THE PUNDIT RM and the Jay of Rena Peterranganas

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and tried in Garran I

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shows ton words to another language - and primarily because a areat our of our underprovided, and our retional scollysis of that and Cyril Chapter, marketon measurer for Contre Baxter in Grenoble, France For cearage, counter a service, bia "Mike nous or a verb, and who burked? A comput-

or could have a lot of delliculty in decisionwhen Imputers with speeder-related pronouns in French. See're ferrining or

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language to the nest For Franch, "rester les Ivas

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So Xeros is weeksag hard at building sook to help in this riobal market? That echnologies to slinw for

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Of source, the last step in the voice Andre's computers are already at Read for at

> This year her see alread to employed Excellence Awards for Canadises, (Piesse world community, it's vital for our visibility while the measures pays satisficing stepwe understand there are suportant people advance. This is who we've taken the opportunity to recognize yas some of the supprisat Canadians on the recheelory

improve over the commit want. And for when encountering space alseas...

> Grace Casselman Edeur

Miliater J David Rober

or Salv Proces ich Text Editor

better Stell Storly Ho

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I re-conduct whom CCW (not started, and compacted to new, well, there is no comparings. The

If we been soffing, cramaging, directing and crackering in this business a long time and there

Lately, it seems as of this no longer holds true, but I life to believe that it still does. When farther to melade the commany and what it steads for

on how "a person made the difference, not the product or the price" Eve silveys believed that spyces making a large purchase decision wants to do the best 100 possible for higher feel to tree che could have done better. Therein lies the fear of screwing it up. If you reduce the fear, provide a support also during and after the sale, he there when the purchaser needs

you after they've bought (even just returning their phone calls promptly), then as a seller and can descend and count on you to come through for them in the clutch. And they will pay for it. CCW BULLETIN BOARD \*\*\*\* Write to CCW Sulletin Blood, at cowlings co.,

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A softwere development lut it also everlable to



#### Quantum to acquire ATL

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The present deal would evolve the convention of all outwith an expressed value of argund 155500 military. Assessing to



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miller in 70% is 30°5 per cent increws over 1007 revenue of USSII million.

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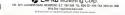














## Any-time connectivity is Bluetooth's goal

by David Tompho

radio stara-

ficution that will simplify data

or any Outtel devices for that house called Bluswork M or becomes what its proposeds fatire will be conspeed with texin a state of continuous standby for digital consumprisation

Here are some of the semanes the group envisions in a Blackooth-

enabled world. The redictor phone as your pooker would tell you the manuest your PDA or postbook company during in your brieflows. received an e-mail if you wanted to also's out something on the Internet with your handledd computer. Bhartooth would scambrady link

to your cell whose and make the cell to your ISP Or of you were makrag a presentation using your nonebook computes, you could transent your slides to the LCD represent winningly - while others in the room The new standard will address resure such as global standarding tion and the ability to establish ad hor connections between a range of and won't take up a lot of power. One caper on the subject mates that

Another essential goal of the standard is to make Blackooth highly consume to maniferance from other devices using the radio frequency Blaceooth calls for an integrated softo transmitten/receiver that allocates a serious 45-bit address to each device. It will owner on the allowing rights inwellers to use Bluetooth wherever they find themsolver. It will few towerlies from having to onery numerous cobles. with them you to consect, for esseigle, a pocker organizer with a potebook competer. The devices do not need to magnitum a line of wight, so The proposal also calls for data and wage to be supported simuf-

and the date rate will be one megabit per second with two megabits per

"The cellular phone in your packet would tell you the moment your PDA or notebook computer (tucked in your briefcase) received an e-mail "

The five appropriate appropriate servouscent a Spood Interest Group (SKI) it Electroth has attracted the screen of

Windows CE handhold or Phim III users may have reparated simple beamens of business card data from one PDA to another find a way to replace cubies connecting cell phones. The goal was to develop a small radio transceiver that would embase the anderonal legited power available on a device like a portable place, the power wireless solutions for str collabor phones. This led it into development

On the PC industry side, land has also been chargeoning withless data solutions for mobile computer overs, and leanched its Mobile Data beingive as 1996. The audiative quarks a solution to the eventure need for mobile PC asses to be connected even when there isn't a viding according on they design for Blactooth Tasksha and IBM will be develop a method to integrate the

when we will not saily see devices that are Bluetooth-enabled. However,

David Touska is a Vancouver-based journalist and Editor of The Computer Paper He can be reached at david@tcp-cs.

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sociation. Both tools in the eventsy of tooly computer sociating such principal operaturely for growth and prints. Bibli is ovinating happily in a corporate computing market that is a monthy diverging translate of legacy manufacture systems. Unliand Wardows NT In this hotorogeneous make platforms, more variety computing any contents, on manufacturer or resolute

varies computing conventions, so manufactures or medician shoot. In fact, the theiry to get different computing system to tak so each other, and work redship superhor in an incomingly entworked business words, in a key to nucrous which eas so a manufacture, multim or end-case.

Learning to Count

The others, corporate and seem fixed with rapidly excluding classical or after computing systems responded by thereing hardens at the problems buying more servers, gauge at N demands of deportures for more PCs, more workenstoom on warveydamp Case and dust seems, sowweet, the bird war to come in. The begree bell some our not to be for up from heart or and the common seems of the commo

broad benience costs and in one of productivity improvement and opportunities for one hauster or gentle explored or instance reasonable for one hauster or gentle explored or inference passage and shore-bother our more supply demanding that computers quantly the costs and benefits of involution in computer with relays. As people four in markyer the efficiency one of these involutions, some health dates are benedifficulties.

Data, Data Everywhere...

Many companies are similar with data they don't know to movel, herecomely, hing anothers of transcence seconded on servers, in potential gold makes of proparliamous, belos and sakes opportunation that offered bodied at organs. Hand driver schoops technologiey is no coronal 45 costs per megabyes, and falling migrally many component surply knoy indings middle-pathyly

> yes - Jeff Event is Associate Editor of Consider Computer Was per - He can be resolved as jeff's operations.

me, year also year, according to industry mider.
That power here previous profitions. Treat, are occupies sexually outside the presence of the inconstruct of each date they are cellularly. Second, are they gained that for the insertance cells they are inserting by verified, in, and measurement large, other. Secondarially with society complete.

Mapping the Data See

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the standard production in the committed in opposition and write

◆HEM Vensule Sterup Server: This is a contailed chard-fifth, source derive which can considerate, that all allowing strangement series deems computing environments including ASANO, UNIX and MS Windows NT
◆HEM columned Vitarial Tape Server: This is a bandware and software server, which personnels, then contains.

and software system, which opposition top storage reasons. Over 200 how been deployed on IBM's 2008, maintainen, and now the VTS will become available or other platforms to well.

The first venuous of these Sensons products will be

shipped later as 1993, and additional products will be released in 1994 to stored the range of features, and competitive systems responsed by the Sessings traditioned According to federaty analysis IOC and Desequent, the springe market as ignitioned to emouse to ever USSA4 hillion list revoked and services where a 2004, and its wifer hillion list revoked and services where a 2004, and its wifer

1800, by investiging its anternation in average memorings resumth and development (over \$5.1 billion in the lanthere years) with its position at the coaster of enterprise competing, request that Suscepts will become the stars dual for competitions warring to effectively me the free of that in their boundaries.

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# Award Vinners

Canadian Computer Wholeseler is pleased to devote space in this magazine to profile Consolians whom we believe deserve recognition for their contributions to technological impostion and excellence. While these people were ultimately decided upon by the Editor: of Casadan Committee Wholosolar and Canada Computer Paper Inc. to receive our 1998 CCW Technical Facelience Awards for Carectans, we very much appreciated the normations that came in from the anderstry. Congratishings to all the awardwinners

#### Trier Chief Scientist, Vice-Precident of Feelmaning and San Federal San Microsophum

on than are other individual. Canada's Juries Goslan. deserves credit for the creation of the Java programming McNesis on down if was Gosling's months into the possible fature of

conductors, when he was a 14 year old fivener in Orderer, in connection the commuter science department, and I was invest as can be I see of

University, I started going over these every day, blending rate the exercised a become the Java project, a lot of the problems were

Confere was marriage at Sun Management, on the loss 1000s. where he was recognized as a formulable talent. In a famous recident an 1999, a strong, management critique of Sun way, women by a discoun-

computers. Goaling was picked to be part of a team that midfully was

According to Goslene "We had become totally assisted very carly on ra 1990 that networking was going to be a very big deal for a much water market, but we were not very clear how that was some to as the auto the Inscreet was just something that compount science

The Good team tend developing handheld computer devices, microcitye cable TV systems and other technological solutions in one of the early interactive TV controcts. Gooling confesses. In

Goding says his buby disuehter occupies that riche in his heart.

#### CCW TECHNICAL EXCELLENCE AWARDS FOR CANADIANS

Tele President and CFO. ATI Technologies. Y. Ho co-founded ATI Technologies in 1965 after represent the to Canada, and over the rest 14 years led the company to as current status, as the Number One anaphas bardware vendor in

Ho has been alentated anamately with his company, largely on the burst of a "We Known" marketing and PR compairs around largely on the rich roof of talent in the southern Octaviothe demands of changing computer technology for

ATT went themselv a defficult record around 1997 to 1993.

ATI dropped to saleline bearsesses to seeml cords and reodents, and ally excellent driver software He is one of the consummate ransfers in the PC hardware personal computer graphics confe, unpreed a deserve group-of

Everped his correct on by coming to market purly with leud-He has exceedily exceed and austrated an animary for

when soveral leading, other development and office went approximations. Consider with Monte with Monte of Basel Matters, but made Consider for leading action for herb quality explains condu-

City of Englishmen Tennels

#### Tela: President, Seesix Technology Care. and Oward, the president of Season Technology Corp., says but In solition, the company has made provide rate the U.S. market.

Many to the industry would say that he's already accomplished

With a bachelor degree in economics from Quoon's University, General femaled Search Technology in 1986 of the whole process, including design menufacture, cos-

Edmonton, Cidgary, Toronto and Quebec Beautiess has grown five strong Canadian computer manufacturers. And the company is a long-way to explaining Senies's success in their field. "You rely live building up a growing list of proellers who've become big fam of once, make a difference

Throughout, Grand has remained responsible for the

Product Marketine Team, a cross that defines the Octside the office. Group! ideas to golf and to spend time with the formire And has obviousphy of life in something that none

February Chell Johnson Franciscon Clares, Sciendisch im 1999, New York a more for itself in the constitute mountry with a line of magnated system and building strategies for deskino replacement retchooks that are possible snough to take on the road, top replacement Under the direction of European precident, Mark In his offerno Bullio Nees to name compositive

seets. "I entry chilespay situations that give me an ment of the "diskton replacement cotchook." oppositions to evorces, and offer me to find a different way Binby's educated secladed management source and "We have a very clear vasce as to what the future's going anisoderable intersational experience with other cultures and techto look like, and the technology we descine as playing a very rate we have demonstrated that our alminute in delicenses results, and

a corporate networking infrastructure for the City of Ottown. there's acknowledgement own on from other market leaders." At Eurocom, Build's daily dates include building savaness

Interferencement on the One Constant Contract successure | 21

#### CCW TECHNICAL EXCELLENCE AWARDS FOR CANADIANS

### Son Worris Title: Vice-President of Technology, No.

Rowman, Founder of Net Stephend Inc., says ins cament pofounced goal in: To keep thing founced, and come up with fource ideas and to do shough better."

That was the limit of thenking that started the Plot Shephend company. Dies stay, a houseast cooperation of Warter's Indi year besided up to the Steiner at those, but said his worst group to let his vesset you have a cooperation.

inappropriate transmit. Best it was the posterior potential of Internet across that got Warris contemplating a way to manage socces to the Internet. Of creme, the immediate question was devoting what it as all not "proof." Weeks captures that filtering out it was the "proof." Weeks captures that filtering out since those doubley on "amorcopatible" words.

copians that filating not miss hand solely or "anacceptable" is reliablely only to did, but the needs to under-blocking or near-blocking. For example, a sale or "breast casees" could very easily be based by that method.

Wirm's idea was to create a "community" of saces to response under government of the property and the proper

community currently has 1,500 members, but Warns exports 13,000 by year's and 'They are mechanically that expose 13,000 by year's each to Web her space and pump-member of years.

New York of the Community of th

City of Residence: Calgary Age

from a Fellomb Standh uns, the Insurest Colono Riczing, database is occored and concrete rising figures are stackfulfered and question of a NIAVASSY's Search, treeds. Sizes are result for both manurary and against privale. Sough socks based on that database provide a rehabite manura to smooth the Enternative World on the database provide a rehabite manura to smooth the Enternative Sough sock or quite of the database provide a rehabite manura to smooth the Enternative Sough sock or quite and database provides and the standard of the standard or extraorder and the standard of the standard or extraorder and the stan

Wents and NetStepherd prevents the need for government consuming for consumple, by offering Web succeedings. If only believe in provide choice.

NetStepherd technology is being used by wide variety of consumpres, release

he Neithenherd technology is being used by wide wantly of conserver, obserte ned mototatous and beamened. Warne, who is nelf-objected, was reseed by his geneditor, an inventor. Warns humself has had warned current own by years, privately at deficient larses, monoconery,

descentify, gartage compacting, electronism. CAD destining and employee support occupations. He flavore bobbers reclaided during lating, extracting and gastleaning. One of his philosophers of life has to do with recording with people and ecocumping them to reach their potential. "This is his believer in people."

#### Cordon Bell Teles President, ONG Software Systems Ltd. City of Societocor Ottown Age: 43

6.6 growment and its base the tracker on criticaled opposition of CNN Authors Systems 1.8 cVNN Software Systems 1.8 cVNN Software Systems 1.8 cVNN Software Systems 1.0 de Channe Geneloper of the CNN Software Systems 1.2 de CNN Software Soft

Bed. lbs as M.A. in solid shift collowed solid projects white Dedge has an M.A. in company in content of projects water. After graduating, both worked it Bed. Northern Recursels in projectations, before loveng and verticing forth with finer one company.

Dedge recently increased the 1998 J.W. Girsham Model in Companying and Intervation at Wistorio's againg convenions. The amend has celly been grown from a meet.

computer in the early 1970s, a few years before BM developed it is a communical product.

Today, the company's stall-time OS is being used as a misconof Residence Otome Age G

weep the commentation of t

In referre, 1854 will provide QNX with advanced cambridge adulted parties in the integrated at the latter's produce surmediced parties in the integrated at the latter's produce surcessed report underly integrated by an electrical products. Rell views QNX presently as a developer of solutions "We like to provide detectioning than helps other people selve their tenthecing problems."

QNX is also a "treet" reflect to work, same fiel. "We have

an incredibly high returnion rate funcing a 200-person utal."

Bell stays he's not a complete windsabelie the his square time, he
Mises so do some hobby favoring, conce in Algoriquin Piek and act as a
Boy Scora teader.



### CCM TECHNICAL EXCELLENCE AWARDS FOR CANADIANS

Title, CEO, AvtO loc. City of Residence: Picksring, Dec view the discrete of CEO Data Supports, Aid O Re. he-AirQ has combined four technologies for the Windows NT based Audio Orioned system, released in late February. They include:

washes communications, computing during imposing and a Global

cuspenced technology." Receipts the whicks am redividually contered with an ceiver, the resease of a workstature in the office can make the

In the event of no notident, the details are reported back natugatectly through ArtQ's crosh-sensor technology, addinging what

to unsurherized incarious where a web cit has strated, includes parkare less and surnous of bushway. Assets the benefits of AiriO for the user, says Semmonds, nor commend officerous enhanced dever safety, reduced leaves from many and service subscier, appendixes, texts, bases, tracks and tradem AiriQ is primarily doughed for well-associed highways and The more come the wardinging papers of a velocity

AgiQ provides a "countegeneral-by-categraph service says Simmonds. "The colucts the volume of reformation to ArriQ to a room very second of four corporate players. Yell Mobiley, Lephysolic Inc., Column SRL and Descraped Corp. Semponds has a background on wardow tocheshing point.

lack 20 years A high school endusts, he has steakly worked his way and simple to use or technology." Summeds left the business world for a three year subbahed to of four children, by your his position my "famely, community and

#### pre-exableshed route. The manager can obtain a primarial map powering Title: Chief Operation Officer, Coalles

wolver for Caratan construct, small burnious and CarTox estudional its consumer-oriented product, CarTox T3

Conflict Til en de campent version in known au CanTair 96. In addison, Castas his developed other products in the same field.

sed T2Ples for corporate recorn to preparation professocials Both TiPlus and TiPlus were with Revenue Kid troke extremity that approximately 7,500 tax measures. toxpriers in the country use the product as well. Also, Coellin has 25 full-tree cerolovees to its Calmey office, but this number monuses to

He notes that while the reservity of reconstants stall use DOS-DGS and Windows - including the lates 32-he technology life

### ity of Residence, Caleary

andormals the relutance of acceptance to make the worth to of the productively gives associated with more ap-to-dete products. To help there explicitly transpore " to the feater the Carties CED environyear 2000. Also he sees the start of tax packages home sold on the

and compain programming after graduating from high remant and soline. Helping to educate people on trues and what they can do to reduce their payments appears to be his mare marker. He sayes would receiv to start filter returns at sec 15.

In his spire into, he blass to send books about horses







sater, before the Mac found at legs in the clarking pub nubinecks and the CD-900M, which was hyped as the "Nox Rig up has been much marketing exchanges about the people at track

sub-US\$1,000 the punel display should be a re-

Neady every observer agrees flat pench are the wave of the

# the Era?

by helf Erons



up to make their move

notation computers, and Windows CE headlighth LCD screens are also propring up in four mildions on low dost consumer electronic devices, such as digital criminan from Epicor, Kodals and Fig., count places and all masses of concernion. But panel dealings that playing optically weight less than half or might no

which as the transports information, assume lies that, this up has Shring tooks or the open to high of and dignide over more of the or CETs display quality, and often a need the terms, but first some coperation compared to CETS. The post of non-report flowers behalition with the operation than CETS of the post of the compared to CETS of the control of the compared to the compared

Some of the faster developeds of LCD screen, including data and construct image quality and a narrow viscous again, here beer environrecent models in fact, no in monitoral below, LCDs have for composing course a superfix manage always to even the best OCD metalon, with the induction of a new standard for all-dayled connections to me opposing general of emphasization.

The man waveleting black in 1996 removes the insec of price. In spire of a regrid slide in price from more than \$4,000 to under \$2,000. But proveds are said Somo Playera:

here are some of the export comprehend driving blind too PS display merket in 1996, and along some of a least and related with free and product of endings.

Apple (Attp://www.apple.com/; Apple hee long hasn's leader in Innoverse monater codes, planeting Integrated "all-recent" companies monitor division when the preparation and Mac Constemation, assistancing in the recently referred Mac-

April Test (film mele resolut on of cite); [227 - 137

Mac purphiral market, much was loon; slab to sel deple markets in the Woodows PC market. Directly, a Decompo openpany July Johnson deplete, edit.

Seytah in evaluma lead ket, avah a product line

such 103 and slowested Officers, is such 113 and such 103 and slowested officers and such 2017 (2017) (201

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in the Gene of the stocker sales noded lend constell mail order each or line sales noded lend ening recent takes as Cenedal, structur outcom this very saled, technically supersore sample is that tomplements the reputation of its FC products

Hartmannengen Sytte Committeetawagilika | 25

#### I DISPLAYS

CRT mentor. This keeps the LCD designer monther confined to a few percentage of

The Alliance The sense explains effect to drive down the costs of first-exact experient has been senounced by a consortion headed up by Canada's ATI Dubbed the Digital Hat People respective (DET), they offered notes to reduce the court of the courters under 11551 (00) vendors including Common and Acre have all announced agrees for the DEP materise. DED and consider a standard for low-gog operator to treescal all-digital stage. date from a PC to a flut ranch, sharens handrude of dollars off the poor of that people. receive data from a examples confi back to divite! The all-divine solution off-and by enhances the appeal of Ref manch over LCDs. The DEP meteorous bost that

Meanwhile --

For the rest of 1906, and rate read-1999, the sales and profe experiencies in the deskthe months market will likely resource propagity with traditional CRT modern. In this

countries, or in some cases are populately no longer being uneraded at all. The now Macrosoft Windows Terror red (Hedro) plotform, and Not PC dealane computers. will offer vendors an opportunity to sell large numbers of low-cost poler 14 meh. opposing from domb terminals and monocloome anomitors to Web-ready, connected

he the suds \$1,000 concerner PC market, bit such reporters will also continue to be

educational decision composing, due both to its low cost and small wee. The special

tubes is the Sony Transport, and its bagb-and connectable from Mittachs and MEC

has continued to offer a part of its Macprotect with the CPU. The next peterstrong of surgested 2C will be a firm

ment whiteing factor to that uchara















Eigger is Better,
Especially for Resellers
Mine of the Iran is the injust of 1998 is
linely to be generated in the 17-axis and
19-ingh CRI markets. The IP-oxis monitor has contrased to prove in sales as
prices here de

shart, and prices litted on so one

lectron gus, which allows the morker to short

enturios, sales, and support nets

here styrowed, and the desert of PC uses for higher resolution displays has necessed. As I's such sometime which type-carly has necessed as Al's such sometime which type-carly has next necessary begins procatilents, desired published documents, maltiple Web preps, and other longs, documents, maltiple Web preps, and other longs, documents, maltiple Web preps, and other longs, documents and mange fleephry.

that is 2-recentrolates:

If the interestivate better and bisviews markets, at differentiated from the
budget marks, the 17 index CRI is quistly becoming for one standard.

Fellowing quartly on the basis of the users of the 17 index CRI format is the
bugged display success story of 1997 and 1998— the 16 is such mostor. Employing
design and fellowing meetings to good at 29 that is 19 in the langual viewing and
selection of 50 objects if the larger than a lendard 17 each sould; this mostor
for fourth of the larger than a lendard 17 each sould; this mostor
fourth of the larger production are set for the larger than 19 in the larger t

series into a fieldywell little legger than a tentificend 17 such model; this measure format offers a patient/bermane or set than interest presented for more "premaries" hence PC uses and professional prophase. CAD and financial composite most 89; controls, 50 and the larger measure settle free in surface seatar took, profession LED passels, with the added dissolverings of large freegrents and creatingly heavy weight.

Other Playeers

As LCD data proportions trend in process brought or scale, they are increasing

solit day an incrementally bring themes in a state of twee just former adapted on common ranges, exceptly in flowaris and elections. As well, materialization of common ranges, exceptly in flowaris and exclusion of a state of the state of t

The Future Resellers should kee

Reactions shaded lettery is closer eye on the primare of both LNT and shaded pitter places. If a subject produces IT is an expected, the primer of a 15-word for a primer of we revealed arm action on that of a 17-bits CRCF) shops to within 36 per cent of the cost of a "Twenth CRCF, (now promp surveys institute that a pro-designation of new industries. "Twenth CRCF, (now promp surveys institute that a pro-designation of new industries. According to industry multiples, while, of CRCF monitors may level offly the year. According to industry multiples, while, of CRCF monitors may level offly the levels of 2000 and better to a Guiden multiple 1 with LRCF decidence when the Monitors and the state of the state

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As drops, workless should account they oft in get a stagle ce the soung said of it is epilicy changing upon perfections from the entirely of problems in the other, higher prices without any price protection from the enterflowers. With similable calciums and office interminents to questions used office in enterflow in the other interminents to questions and other interminents to questions and other interminents to the enterflow of the enterminent to the enterminent to the enterflowers. The enterflowers is the enterflowers of the enterminent to the ente

We've had gleerly of varioning that the shift from CRT to LCD is coming then's no excess for not being rendy to explose it when a actually happens. Bl Add Evans to Associate Editor of Consultan Computer Wholesakes. He can be resolved.

at pr@intpresser

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# Where Innovations Come Naturally

The New Brilliant Series - Motherhoard of



nd + QDI (stest Mel 4405X Postium' N Processor Based Matherboard



CE FO

They're primed for portability and power but which are most worth their carrying-weight?

by Seon Corrashers

tions, and as business people are more mobile than ever before, the need for powerful portable This has spawned a wide variety of interesting and anothel devices. But while handhold unto like the Printflist or Windows CE machines have a market, they continue to be smaller and more hanted in their

and performance is mudequise for supthing flusby or CPCI-unimase bosos genuero imperovivo. A SGB hard drive in republis the size of a pack of players. cords. CD-ROM drives are scarcely bigger than the CDs themselves. Most much rescome with a plethors of external poets. Increasing the ability of notebooks to interface is two directors. Enhancing one porphility, or dealton replacement. With the units that are aspect at portability - you and weight matters. To a user who will be discing a stricture over a shoulder for a dash to the airport, the lighter the better When

working in convertical and ununicasited season while on the way to an important On the other hand, the designs conference relicions are house and who oppraisedly need to back up their neerbook but don't want the havde of constantly transferring data between computers, the

driline regiscement reschool is becoming an advictor Messachile, ne components get smidler more can be cloud tried the parishle mothers. Although some ranchines 40% accepts the over to sweet between floors powered down white switching), a release of machines

both the CD-ROM and floppy and the same small case



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and secks for gree and keyboards. Further, in addition to the PCMCIA

ing to ship with built-in LAN picks Compose us in both possible and deviage replacement such age machines. Although mobile Poetrum II processors are starting to smaller companies. The good news is that speed companies to books were often brusted to Pressure 166MHz up to 1s dos recent's

Lif-wired than ever before. A ranger problem, with early notebooks was

As far the screens, they contains to play in size, in well. Desidon area as the 15-arch CRT. At 15 1 raches, a LCD dearlast a startion to personal the remarkle was of a 12-such CRT remarker. In essebooks, the poxels are hardwared into the display. Most of the

new notebook compaters also with a sombition of 1926 by 766.

well-saited for flishy presonations, whether for large and important monore, or on a number of smaller mornors. Setting up for a large

prosputation can now be as sample as fledage on electrical outlet and planter a cable reporter video-

during this month's toxic is the obshity RAM to boost system JUMB Now, with memory so

was randeletely shipped with only 16MB RAM For administrated

month's test are good, with a few mans dollars they can be even better the difference between speak performance and excellent performance medican software. The notabooks were toxed in both 1,024 by 768 and

800 by 600 productor with a 16-bit color death. Toxons was done with We also ded a radimentary ballery test to set a reach estimate of

#### Processors, Francisco III 2008/00.

The Appel EXXI MegaNets since reposing page of engigment, larger and horser than wooknote the markets are taked, and a Partison II 265MPc processer, the MageMills and cys. Europa st.







with feater browsing, more Dir-like spand and smoother video, a U.S. Robusies\*

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is suickly dosing the eachement gap. Our newest, most competible 46K modern connects up to Anti, faster than other pl. fl. modern brands to nine of providers and over 1,400 more around the globe. No wander U.S. Robotics is the world's best-selling meders. To learn more, contact a

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#### Processor PowerPS G1.795M4

Suggested Receil Price St. 100
For State Society of the Abstration to the Windows based releases fracts absent the

Mecrotian After it were your did incurrance should have the conserve was yours, Julyan has reverself the existence with the new older, and bodd-based framedous. Extra was discretized worst it makes the winner of registering, the local of the new framedous the new discretized worst it makes the winner of the production of the new content of an object that IT there is not if controlled stiff of the production of the new content of an object that IT there is not if the controlled stiff of the production of the new content of an object that IT there is not if the controlled stiff of the production of the new content of an object to the production of the production of

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Unformately our benchmarking soldware would not append on this seathers, as there are no new locality inhibited in the others. The sense of moreovers more To replace household perform form the

results included in the sinery. The general committee anyolida mechanic bysically perform factor these Persons resolved with the some trapermy rating Either way, this colleges other powerful performed as and a send on all or mechanics.

## Processor Printing 231Mbs 1990. Seguine front Prince 8237. Die of the general in the relating Company afters the Armede 72000MT performance necessoris. This

possible is a death plat machine with with interesting filescent.

The off of the control and any of the plan we receive the misspect count or control. The file of the file o

operating systems ownershallow with a Mendaminary distinct sey to accommodate country and of the country of the

### Africhi Visionionic Pro 2010

A recent extent with the field of intelligency, filterth les provided se with Veserbork Plo 1960 With a seld 133 mg/s Tri (registry my about everage and although it don't come at the top of the hosy in the benchmark scass, this model cames with a number of more feetures that my

weeth sulting about.

Pless assumptions as the buy assign slong the fourt of the matchest, which has a spot for the floppy, the 2DX CS RSM and the fine's deal. This sesses makes the heard slone as easy to change as the CS RSM store. The develope to the buy sating as the CS RSM store. The develope to the buy sating as the there is no space in the resiches the a behating value section either the floppy or the CS RSM.

In commonwealows however the meather soones by. Like many of the other machines at slope with an enzimit US Shabords SKOUs modelm with indeplant connector prick the 20th great and better through, and also rectides a LAN years for easy reswerking (without taking up a PC card



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Veik Soughts's Booth

#### Processor Pentium II 200MHz

Saggested Resul Price \$5,548 on desired replacement units. The 1566M certainly firs into the cetapory, offence powerful components a fast processor, and a larger seas and some questly, grante weight! Bugging of the

stilled mechanic for someone who weeks something more substantial on the desiston, but would like to The line free first suppressive about the nucleus a obviously, its about use. Although some of the

effect. The extra width, when added to the other half of the reachine, allowed Earlicean to fit the 24X ES-TICHA. No

It could with a one-year werenity and its save carrying once

Though the machine has the two standard PEMEUs sizes, the machine posses are should within U.S. Robosco Michael modern part metalled in one of them. As for the other components, then appear to be drawned for easy removal and replacement. The focus CD-100K and you the hard

the corner and marting an a maker paid Although must non-books' bard drives are at blady much better protected, thereis contently a psychological In short, the Europea ISSSE is a substantial and spendy mothinal that is partner for designs replacement and the recognised as as a portable





The Myperdate satebook, provided to us by Compacon, leaves very little to be desired. With a SWMX: Perture MMC: it abouts in as one of the feetest of the markows tested the worth. The bryboard brook is positic familiar for users of a steedard fall-ups Western exhausted

The climber for this nombook however is the price At univ \$0.500, the Heneralets in the

ings, tale. The other thing that could really work a possiblent about this machines confidention in that is PCACIA coul, after the feet Agent from that, the Hepwidele appears to be the high-outpressor.

#### Processor Persiana 2018/00-10065

For NICs performance such, we looked at the Venus \$300 which comes in a chargoal calor insulad of the could be set black. At 200MHz, the practices performed quate well an the benefore-time texts and even, or

As with many other redebooks, the biggest downside to this mechine is the box configuration. The which can also go mis that slot. Although there are a lot of opcors, the deventme while swecking The machine comes with Adobe Acrabet, Audio Reck, Liebbeth, Liebbek, McMee Yous Scien Mediamatics MPCS: Nord Figh PX, and QAS Fight/Fisk. The opposited rotal for the Versa 6250 is \$5.500.





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 Speed: using 35 T3 lines (Silcon Valley Location) and figurests OC-3 line 155 Mb/sc (Canadan Location) Reliability: redundant power management systems.

UPS and penerator backups, manned 7x24, professional air conditioning, fire protection, seismic and security systems . 50 MB disk space, 1 GB traffic/month (100,000 htts) . Our "Gold Premier" partnership with InterNIC allows us to

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#### Processor Powiers 2006/86 MBIO Sessented Renal Price SF 327

Taking a lack or \$\$\text{digit}\$ The \$\text{Mod \$150}\$ as all it takes to figure out how \$\$\text{SM}\$ got at good name. Thus a are adult mechanic bashed his terms of constructors, and a portionness Containly as \$\$\text{325MN}\$ is the speed in a later to the name of the other mechanic bashed (b)s ment) but the \$\$\text{CM}\$ is \$\text{Taking \$a\$} and \$\text{Mod \$a\$}



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#### Tecessor Panalum 2008/04: MNA

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herd is put the thing for inveneer which investiges a fix with in companion in their first accuracy, cycled to work, the prounds tend or supplied of index insights and which sweet is more as left. Because of the sixt, the sixt communities the flagge or the TSE CO MBM, and without with a series from Co first other both of the previous region to a smaller rectation like this in low point of the Ladary sixt higher their investigation of the machiner with necessarily the Banc best, but where companions for their preferences that machiner with necessarily the Banc best, but where companions

For have perhanance this methors with necessarily the best lest, but where compositions or opposition for 25 are ofer merce. The susteamy for an 05-25 in three years,





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### Shirty PC-M200



Processor 200MHz Pundom MMS Supposted Soled Price, 54-69

Adultime referent mercenter for the world of micholoxis (Shely F.C. M200) has use on passable definitioning refer of the first inside like a server of Alman separate of these in the character, and the server of Alman separate of these micholoxis of the server of Alman s

at \$20 value out and the billion go to a billioner \$400 PM \$500 PM \$500 pm and \$600 PM \$600 pm and \$600 PM \$60

#### Processor Purbour \$ 256Mcc Supproved Retail Price, \$4,000

For year, children's fast been making combacts for other associations who would get that have been as this ear are much be figure fast. Another in emericating replaced exception under to one ment does concerculately if implant figures, of an which have ment in all a best to the ment does concerculately if implant figures, and which have are may not be been done to represent the second strategies. Another than the contraction of the contraction of the dollars whether the fine contraction of the comparison of the part process and CR DRD over the fine fine desirable plant and contraction of the comparison of the part process and CR DRD over CR CR DRM represented and 100 for the comparison of the part process and CR DRD over SRD CR DRM represented and 100 for the comparison of the comparison of the comparison of the contraction of the comparison of the comparison of the comparison of the comparison of the contraction of the comparison of the comparison of the comparison of the comparison of the contraction of the comparison of the comparison of the comparison of the comparison of the contraction of the comparison of t

Performance on the reachine was said coming in at the top at the beap for the smaller machines; for was object out for coreal performance by one of the larger destalog injectoment orbitologic.

For software the CDMcand peckage is indiged, with potons for value, place and one of Alle included in Marrie DVD and TheXT for the quarter of the ALSE the sometime or all the contract of the CDM can be considered to the contract of the contract of



Hypardata Though it no

reported in Thosp in most before the date second place on the performance content. Population's notablest comes in et a \$500 — the lowest price among that mentiles consistent. This machine office great perfortilesce for less.



Augel 6000 Maga Note:
For other performance, this mechanise welfard every with the price, largely owing to the combination into processor and sufficient RAM to minimate awapping for a maily apply disklap replicament th



IBM shows why the complex is no respected in the monitons licit, with a mediano that a rugget, reasonably fact, table to the easy cover and thout fail of activene goalder. Add the fact that it's easy to use, and you and up with a colorably facts and of down to See December 18 DDMs from Lab Eddar Me can be seen failed at association on

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Denie 2003-000 NOUS SISSE MAD Female MOVING MED Finder II 2010No Party of 256100, 100/20 pes 536 PDS 97.05 243 1360 Torrepo din 5308 50 13675 at IVO BIX Of runs B. Hillips Internel Milys ransi Stopement PERM Uthernion (Aumin (them be | Physics 1502630 148-97 455 149734207 Velpe Septembergine by the conductor/or worself. 41

## Bigger is a truly usable machine

by Grace Casarleson

To date, one distinct factor has been both the blessing and the case of Windows CE-based systems - their year small age There's no arguing that computers weighing low than one pound and firing into a purse or the mede pocket of a wei jucket are extremely portable. Unfortunately, they've also historically been such. ward and opcoming table when any volume of typing was required, and

have been hitting the virgets, agreenably sporting began accurate, more it comes to year, the Packard Bell NEC MehilePer 750C is murketly different than its commenters. While players such as Share, Carment and HP have stack with the smaller from theory. NEC's new officence is big! At about 10 by five by one inches, it's not a pocket device by or is a rather inaccurate appellation

### At that wor, the beyboard is not skirbtly unadler than full-sized, and

made truch-typeshile. The color display is easy on the eyes, particular-Taxin, the MobilePro 190C is prepared to coverer directly on several from with notebook computers. For occasionally mobile eiers, the product, with 16MB RAM, morn des excellent functionality scheduline features. Informage can be transferred by desknoe eve-

#### Voice Recorder

One of the system's interesting features as the built-in voice recorder entrant, considerior the enerof the none-disturbings to many easier tives use today. On first glance, that somes more of a cool incremental

#### Southing of alternative input, the product sho slops with a demo sersion of CalliGrapher for NBC. A full version from the software developer 43 CHARLESTON OF THE STATE OF THE PERSON OF



Categore Windows Ct handhold

the pen on the scream, and words will be translated to test. Recognition sia') bad, but far from perfect. However, with considued efforts, the user loans to post more ready, and the product responds with better recognition. Personnel applications could reclude joting down notes. con levels. Another agroon of the product is to turn off the handwat-

#### Battery

NEE claims to not about eight hours off the lithium can rechargeable but tery Certainly the use of backhabing and the moding are hancey-bancey ing backlight sex, and supported about as hour of certice bettery-only We's aware, without product. At a suggested settl price of \$1,499 -- containly the potential

buyer is approaching the notebook price siege. However, at that price, MobilePro 750C. And still loss one compare with the barrary latel Plus, don't forget the "instant-on" feature of this system. That instelligely resures that screen. This can be very bandy for quick-

#### The Market By broaking with the pack on the size of CE sesterns, NEC is showing

lendership in addressing anability, and discover to be applicated. Keep as eve on this product, so we product some of the current handhold market will be willing to code force to get function. Moreover, the recoteant) because envelor considerar a nombook much early by sweyed by the price and espablities of this system. It's Grace Cattebaux at the Editor of Canodian Common Windowster

## ASLASCAPE

Segs unveils persing comp based on Wesdows CE

Sega Enterpress Ltd has andered as need generating spenier consider as a bold storing stranded to skell masker share away from Sely Corp. and Selfmed Co. Ltd. To build the markets, Sega has turned to Microsoft Carp., ASC Carp., Helecht Ltd. and Yamahin Carp. ASC Carp., Recomposers.

supple A femilie 19-bit RSC stands processed processes will provide R-channel stands processes and p

Earlie of China plane Hong Kong's first SET getsway

Do lest commerce is adding new to Hong Kong Just

sooning this yets; Hang Kong withhow its lines source

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comp they et clear than another six texts. payment personny for craft card smandoom the felement 80°C Craft Card and 50°M have to any to provide a reliable and accours ensurance large Kang merchants to do business or-hos. The prevent application is based on the Electronic Transaction platform. "This individuation of the 80°C prevents pet as a requester to this demand where is lead and the provided that the second substance is lead and administration and to the second substance.

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so int, OW, his moreous to been and compresses to pressed in operancies. Julia Computer, Mujebelor, as the Metel and Clim The compresses use IBM's incloses subsense pookings.

"Climatis and introducingly," solid. Keeth U., Ently is account associately, (Internet Bollstonia unit for Julia account associately, (Internet Bollstonia unit for Julia).

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Mercenhilm, ITIU to provide DVD in Toleran Markethia: Eachtr indentral Co. Itd. and Toleran Industrial Technology Research (1956, and 1976) here agree



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Plastic Cases

PROMA

"Users appear to be suickly discovering that by merely spending

a few hundred dollars

to add a DVD drive and perhaps a better

sound card and speakers -

to their PCs, they can enjoy

a wholn new brand of

esktop entertalament."

Varsatile Desks (DVDs) CD-ROMs. Downed in starting to ancience stically - despite the fact that DVD Demand for DVD drives persons a buge rate opportunity for medien, but to prop-Jest as the Apple II distrit rently take of ore down by demand for Loter 1-2-3, State and WordPorfeet, DVD is just gricken

momentum is software after many obvious of it are appearing CD-ROM tales, access disks exceled with

red dollars to add a DND lvs — and perhaps a

Ass how by in the market for 1811 plecode? Well, consider the news from Metro

but it hasn't reached

Group" (the instantion by trying to set All suppli computer industry measurement

nere to stay. that has been meeting with The company and it

high-quality (figital saubo to consumer electronic derrect," explained Rass Blampion, Jetel's eadly marketing estinger

maturit

nerebook computer market, where Tarksho has led the obergo by shipping a DVD drive on as high and Tecra notabook (which well politica stances for the well-healest, others tree

Douglas all this support, the fatters of DVD is hard to product - particularly when centomers to create their own DVD doks

Nihon Knipsi Stinden prespaper.

led by Sony Corp., Hewlett-Packard Co.

Howlots Packard as reportedly nearly to Corp. in July plant to bring co-sa

Simple "DVD-operate" kits like the

etrice put of this decade). In addition, made for the demand. It's

# Safe &

Computer security, or the lack thereof,

"The bottom lin our economy tod property."

— Kevin Ford

"Technically, the level of security that's available to us is remarkable — what's missing is the level of confort with the technology that will allow more businesses to use it."

— Barr Levis

# ound:

can make or break a business.

Chosts in the mechine Speeck as the hard drive Wit're all weeked about things that can go wheng with our computers—and those we self and survive for one extrances.

Say the read problems, it recent, as are in the computers thereaches have

with the people who are them.

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Acquiring the World, Miles collaboration will have a large very given in the world. This of being 1000 coming a mixture Section of particular that the world. This of being 1000 coming a mixture stage of the particular shadow per curries of piles of sufficient and particular particular shadow per curries of piles and the stage of complete, and force that S per use those considered decision. The means that have a simulation on a cally pinking of the first and on the manuscription of an exception creating in distribution between particular stages and considered Colombia. Otherwise Colombia is the considered of colombia of the colombia of the colombia of the colombia of colombia of colombia.

an owner of returns." The validity mys laws, a finally garing accumyease, and the lost effect, where they being.

"Security is self a stormer and red are beings measure for more house.
Society is self a stormer and red are beings measure for more house.
Society he says. "Society care of the myse and show the hasten and grassion is security tools—while I call management by require—they have commerce in Figure.
Beington consisted. They want 10 lost of what the way and society accuse to an act here made

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Security will Grow to Expertance INST — Major sharps to other of in This occurry menogeners and strike, thingking from increased spending and white company mergan to the appearance of the new matty of financians and modification in recognition of the first strike and the security of the strike and the first strike the first strike the security of t

"Security vandurs will marge and postnar to form more comprehensive advasions," predicted Sovier Foots, predicted Sovier Foots, president of research strategy for the Hurwitz Group. Foots predicted that, how this year, new policies, excellent and an account.

rounding sold twill former, swith ender too and sudborsains. Over the rise the ment, "combined ending will be one a primity requirement," extending to the assign. Restored business will other as one sengic largest dever for the securi-

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sociation of the many highly developed markets tabley are for products like financial, virus prevences, application access centre, instrume discher, and communication security flores apend-departs anchole entrophish; risk assessment, user auchie religional authorisation at the application level and religion.

#### SECURI

Physical society is only part of the solition, though, says Keyfatz.

What matters must as the attitude of those using the devices.

"Mest schools, for example, put their computers in storage for the softween be sign." When they also there out mo characterising upon the off fill, says clear fails reconnect the secondy belongs. The real secu-

any seas how many construction of exceptions arrandomly only a seas how many and the many and the season of effective security such available right con." says Colorian Levin 2021 has been seed by YEAs and Managard for some years, and SSE, is used by most software conjunction affirm on the Will Tallachand, the level of security that it wouldn't to us in manufable—what current in the itself of comfort with the inclinability that will also us in manufable—what current in the itself of comfort with the inclinability that will also more behindents in use it."

assumed out in tenturation——vatas instructs that earlier of control with the inclinationy that will take more betaceness to are it."

And that, of course, in where the going gets longly—and the language of person of III, course of the person of III, course to a short the going gets longly—and the language of terms, shouldn't, and screepine. Exceptions, audientations, and conflicted output in the language of terms, shouldn't for complete in the language between the extension of conflicted output and PKI (Public Key Information) in the language of the la

"People want to be wild of easy scholors to their scenarly issues," sope Kervic Food, of ComputerActive line, a Niquesco, Der hand firm statu specialiste on efforces preceding de recursy-forced expense or to chests. "Unformaticly, there seem my the Propose's using Wilsia and the Web these doly, many computions are careading their sourcal net works to home weekers."

lectual property. Information is more important than ever before that's where the busics are being made, and that's what's arous exposed than ever before."

The solution, says Fort, in is

belone approach to many of security.

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world — equate is encrypton tools

Forwalls ensure that only authorized personnel are able to give

coccus to inserted data. Encrypton tools insolve a sequence of screenbling, segrang, and file integrity procedures that makine subvisions and

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be sented, a set of the second second by Northern Telecom, among these Bensus Expose (for secure e-mail), the set Emissa Blank (which ceables secure) to SSL, MHE, and

lave forms signing), and sel- the flatrast 40 Pablic Key — Infrastructure

Ministration
"Without the load of technologies implemented by the description in part Impossible floor when the right load of education is followed by implementation of those today, you can't supe which giving to happen — we're oppossibling a might agreem model.







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Whatever your area, this show promises to be an enriching expenence-Register carly, and you qualify to win areas prizes from Ford, American Econys, North American Louisian Services and Room

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## NT, Unix war rages in CAD/CAM

Book Street

The is collect to Unit or Window-NT in the CADICAM enricht "Joya have "logistic forms, both sides," says Mony Smokish, sales munger for the Canadina and exchesis U.S. sindfoli, at the Moureal-based L.S. H. Canadina; Int., "The debute can get downsight bested

severy VARs specializing an eitropist called design and membrackerly vibrates in the cases of th

ticht mitmerkelige fin gewan gegelauft in the corporate market for Macrisoth NT workstation and solutions. "In it more find Unes shor so easy years of fairs sains has become a robust glatform." But new, a'v consuming with NT competition. But market that light is, some undetensed from CAMPAM more find in Lifeli from a of first CAMPAM more find has Lifeli from the or first control on the competition.

gouing to the same organization, throld life the test superpowers agreement to goods any three differences after the Child War. "We are not a haldoug," may Secolated, Novembellow, the in conflicted of Unit's slaping power, "think worst yet wangs it has no metch accurations with a large hastfeld has of



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Check set the fellowing dates











Toronto-based International Data Corp. (Ceneda) does redicate that the Unix workstation market is stall the agency's meanth manager for systems and workstobern, surrous more sums of CADICAM solutions in

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DynaCADD 98 admoké Hrt. Olk-bahád Dock Schoole

tweet, elena with its compensor The product is priced at \$350

nten, president of Dink, in a state Danie CADO 80/20 tercets contorio

in other news, filled mad like the dearth

softwere developers are joining its developer programs, and his ambedding The Corec Group of Mich

Station Company of

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merket, cADD-07TYONs, a subsidiary of

ment in Units workshipping. still handy for conhisticated compute-beavy applications

But he preventheless points to in 1997, compared to \$317soffice in the possess year serged from \$57-million or

vendors, traditionally Unitproducts native to NT. Among

used workbands by TRM reclading L&H Other resultors him Conrone further and susped ship

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The Richmond Hill, Outsavely as NT shop after going through a transpose person when it was offered both opening systems Way the distractic mare?

of operations, Philip Mulcons, says that his largely auto-secter effects, including both

manufacturers and meta suppliers, have developed a profstance for Intelligent PCs as those computers became more powerful, easier to use and more affordable

force from nearly 40 to 12 conference In sty beyder, save Malcove, is it allows for scarnious setteration between data files contained in non-production applications in the orranguation - such as word processing, accounting and prevalaboris. "With Direction only be done." Malacon-

suss security. Has NT's week points - The sta clustering soleare second upon by Brien McGrepos, an order Unix fire and needest of Mesoscapes. One have Helps Systems fee "NT is poor in available for running a computer Her office applicational and remark CAD \*

However, Inch Concusts, senior conceilant in mechanical engageering solutions for Framingham, Mass based International Data Core , country that these technical debates will be orelessor as NT workstations and solutions engine appears. By then, 'the performance of NT will handle more recopie's pends," he states. The progression is that "NT will overcome Usin over the lone run". NT's popularty, he adds, is being driven by the large manufacname, which certies a single operation system for the entire

CAD/CAM solutions have become absentious server

AutoTag has drawing info

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AutoTing costs USSUS for a basic Scane

many industries suchidate the rate, elecdoes have lived to cover all bases as CADICAM, on all recommons trees that recludes mechanical design, manafactorian, steps upplyon falso known as



tics, 18M's Austra-based MCAD maraner Bill Florung acrobies 3D solid modelling, as it has become more affordable for eyes the smaller manufacturer. Corp. Irods the pack to CAD/CAM solutions with 30 per cost of the market, command to 20 ner over for Avendesh

known to mass contractination.

the developer of Provincement, in a bigger player in machinated degree, while Aurodesk and Interests have a hence presence to problecture and organizating, also important areas for CAD. Up to recently, Autodook's The role of the highly specialized VARs, the room changed for machiner the real over, in viewile changes

cations out of a range of But the matter of hew this a major time, true for IRM spokesperson. For most con-

providing more and fine training, support and margamoney for their character "VAN's per becoming posterior L & H, for instance, has followed this costs by corre-

seg out with a data issuagement software tool that works with Dansald's Cario

partiers, man Pleasure, "R at still ensicr to deal wish the majodealer three feet yway 100



'Get yer yay, yah's out.

EDC's Consway was product data consuccess has design and manufacturing is conducted collaboratively in many presentations in separate potentials locations trimes the costsport and the world. Furthermore, he sealer ring in many organizations. Included with data produceevent are workflow elements that help management ad-Still to come is virtual product manufacturing, an sees that mate menufacturer Chrysler has gone some distance to investigate, adds Florents. In what has come to be

wenter.



Management of the Contraction Contract of Contract of

## WORTHWHILE CPU ALTERNATIVES

will all run at 1000ABBs, speeding up the whole system As well, unlike the Pentaun IIs. Xgon is originated for main-group-set compared to a maximum of two for Pentages II designs In addition, Xeen procureers, current at 400 and 450MHz, sachala

represent a small (though profunble) market segment. The bulk of the market is self between low-end and end-range compaters. Intel-

modest approvement over the previous 333MHz speed champs, that

tial tasking results are less impressive. When 350 and 400MHz CPUs

more expenses than the more standard units frestaling 66MHz

Intel's competition, however, is not samply sating back and leaving

### The Choices

The three abstratives, Advanced Micro Devices (AMD), Company time, propried a set of new processor commands. The 3D New statesticand set aires to enhance traphic and multimodia performance, if the settings, but well not be compatible with Irial's MMX-2

PowerPC

step back from the PC-environment entirely, and take a look at the

alternative to Intel-powered ups, and is they necessaryly support PC constrained hardware standards, such as EIDE drives, PCI bus cards, and

cated in terms of the negotiating process as well as affeative sales techriques. Therefore, the small business owner is often at a deadwintness. tactics to consider. As in any negotiation, it is important to indesstand the needs of the other ride. The vales arrest's protrymous unclude naming a commission and satisfying the landlerd so that organing business can be obtained. As the sales agent is acting for and on behalf of the

other words, try to keep the sales arent researce as to whether or not

Understanding the Landlord's Needs · The landlord wants occupancy to attract tenants. The rece-

tennes in the halding, the cover it will be for the kindless to arract these are important factors to any tenant is well as the landleed. If a tenses to see up for the building \* The landlered preefs cash flow to debt service the bank burn.

concriting the cash flow to pay the mortance. The flow and therefore the more pressure the landlesd is under from the bank. The implicant may be

> . Fall occurancy enhances the relies orice of the building. If the landered intends so sell the pancy is other words, there is a direct figure til bea-

· Tenants make it easier for the landlerd to acress bank flamming, if the landood without to

amones of cosh flow being precised by the tenants in the building Thomfore undended the context in which the landless a openant in many situations you see done the landlest a frame by becoming a tensor, not the other way

otherwise one-sided lesse amangement Important Steps In enthusiastic about the location may reduce your negotiating square. In Negotiating a Lease

and concepts. Speak to your secondation

· Determine your overall orders regarding the ideal location, the these faceways: of as all possible. Any one of these locations should be

answered by the landload or his representative . Obtain all documents required to some the three locations being constructed, and other information that your lawyer or accoun-. Decide on your regotisting povidion regording terms after your

constitution with your professional advisors \* Decade whether you are easing so do the paretisting or have your lawyer do the sensitiving on your behalf If it appears tectically advanraprove for you to do the negotiating, then make once your game plan men for the other side to marker at feature in the manufacture street

and give you the peace of rand of knowner that your decision is based on

ing The Gorofete Consolver Small Business Guale (McGrav-Hall Machine research to 1981 Contract Charles Contract Co. 1981 48

## Web Sales aren't Without R



carrier state of o-communities. Bell pars the sacresses of comeanes

Indeed, Anderson Consulting says the number door. There are already more than \$1 million. Internet uson in the U.S. - a conserve market Compare this with the 38 years at took miles to much 50 million even from 1922 to 1960, or the telephone to reach 50-million mark With helf of Canadian households reshops her "R c ship beganne sharely

we're ahead of the U.S. in Interest coases. The Billion Dollar Balloon Coco, International Data Corp. (IDC), Powerter Research and the U.S. Does of Commerce all agree that projected internet e-

commune stoods is expected to balloon from as 2.1 hillion raint in 1996 to about \$300 billion by 2002 to fact, Pomenter However, this lumntive landscape is fruiths with penils, too Consider the case of US\$20,000 from popula cedarina computer

company sizes it! of this happened between the first socidant as 1997, and one month laser System. Her sino it stranded for elizant it the full amount out of pocket

### One Per Cent Margin

noss is tough, wait until you see the rapperhis one per cent merket. These lond of "vetual compete, whether you are a multimational cor-Novembeloss, Bell Canada spys st

ages where the approvements in humans efficiency are controlling Comission for tens offering trades at rates as low as 569

Revelling in Bargain-Land Bell spri the setted bestone of consumers

General Review in Welmonter of The on-line price(performance roughly following Componer Esper) Web size - Canada's Expect devalues of computer information, ICL E-conveyer offers the recental for

Years to Technology

Adoption to sometim U.S. 1920-1945 1951-1954

exemusion is terms of product, customer base take off the rose-colored glasses Attracting On-line Shoppers

Considering advertising on the Weld A little. nesenth on help your investment pay off According to Starnet International's Alan location, location and location. Various sites

or on-line advertising us, tracking software to a court. Some organizations rely on their own Flowever, off-the-shelf solutions are available to track "Not." includes a tool called ESA from Medalfloors, a Windows NT stillty called MarketWave, a Mac-based program called Found?With and a number of others, of Most are evalable to "tradeure," and ran

## Making the Most of a Show

#### hr Moore Kerr



You hear if more often than ever these dass - some of the hearest comparists The first and most important more to consider in leaching quality high is

what is happened at your booth. Make sere you have knowledgeable, franch y people on the does a change to see how your technology works, and make sure the nepale sixture demos

When Staffig slows down, your staff shouldn't. If they have an opportunity to take regufor breaks, there should be no need to out or leasure around during booth duty. The key to say attract a lot of people, but they don't always result in qualified leads

### We knew that, but...

Almost all shows are counted with a releast conference erosman, and conference sometime. You can be most of this, if you plan early enough. Conference programs book up crackly so include meakons economic test of your annual trade show element. Rad

letter to the conference organizer, configure your background and qualifications, as well as a deliver an effective remembron, speaking opportunions are a great way to ranke yourself and year company known as industry emports Appther way to appeth your show dellar as to take advantage of any rawle releases

amorroment to make - a new product or an appertunt strategic contagnities, for example Bugst by working with the show organizers to find out if they promote the show to the mody. — most do Talk to your show contact to datament what passages you gas levened. media who pre-registered for the show. Use that as your starting point. If you feel to though relevant news, they either won't amend or they will show up has wen't write anothers --- and

If you con't alliked to bost a egitomer reception or beaminfully saids, be said to attend

Making the most of a made show can seem a for of work, but if you do it make, you will Remember research, plan and always think bigger than the boots, its

that works explaintly with companies in the Bigh-tech sector. Ble can be marked at



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### \$-Jite Schwerz LLC says its which

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schedule can be not

ten a US\$2155 and a

scarmel power stoply Among the include:

The MOVING comes with a 2MS representati tinds memory certification to RMS certification are movemby avoidable, and 10MF and 15ME full-rates 1 765 by 1 604 senses at 1855 female For a peopheral canadar the Ruy



Security Technology was the executivation of its 18500 was library SCH Cheesely SLP days and Heseletti

## thickerd inc has recovered the



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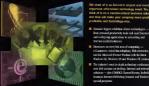
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## PAFEOTPILE

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The responsibilities sociale leaders endountered in Somers N.Y. At MAI. Vision Novell appoints Dermis Rancy as contor vice president Now!! Inc. has appointed Dennis R. Rassey as social wire president and charl fine-scale

Europea spagninglish for Environ, corporate fundation and information systems world-

There is a tremendade apparaturing to edge Rowell's business with banchmarks for

#### Dali han new Axis Pecific procidest 1954 — Guil Computer Carp, has named John J. Laguer as the nave prosident for Asso Proofs Group

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#### Professional IT Services: A strong but volatile industry In Morrers Leach

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force in 1997. Collectively, the spe 50 commiup 21 per cent from the \$1.4 billion they genparentings in 1997 board on cryenaes. It com-

ougs it shows the, while the province of Outhor is home to the tire two comments. cert) of the top 10. These concentrations are addition, the professional IT services from the reposity found, realing is layer-

year's Number One emfessional III services of an acquired on strategy that belowd secure sts lenther mostion It speared CDSL Bell Sygna, BCE Inc 's computer consulting years, and with the rate at which the weeds of phones continue to bloss, we seen't willing to make any predictions as to who will end up on tre, or even on the list, next year 101

degree of volugity in this sector, characerparacring inintionships For example, the

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